

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D505-1057 REV. B,
INSTALLATION INSTRUCTIONS IIS05-1 REV. E,
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D505-1057 REV. 1,
AND INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA505-1 REV. 3
OR LATER APPROVED REVISIONS
REF. TCCA STC: SH18-9, SH19-31
REF. FAA STC: SR04133NY, SR04387NY
REF. EASA STC: 10067422, 10070898
REF. DGAC MEXICO STC: IA-623/2019, IA-645/2019

1.0 PURPOSE

The DART D505-1057-013/-014/-113/-114 Skidtube Installations (ref. TCCA STC SH19-31) do not allow Loop Clamps and L-Brackets of the DART 651.600X-series Emergency Float System (ref. TCCA STC SH18-9) to install per the float system's installation instructions. The purpose of this DART Service Instruction (DSI) is to provide instructions for alternative attachment locations for the float system's Loop Clamps and L-Brackets. The DSI 9865-011 kit is available that provides additional hardware for this change.

This DSI also corrects the torque value for T-Bolt Loop Clamps of the DART 651.600X-series Emergency Float System.

2.0 CHANGE: RELOCATION OF LOOP CLAMP AND L-BRACKETS

When installing the 651.600X-series Emergency Float System on a DART D505-1057-013/-014/-113/-114 Skidtube Installation, Figure 1 of this DSI may be used for alternate Loop Clamp and L-Bracket locations as follows:

- 601.4106 Loop Clamps (F/N 25) may be located as shown in Figure 1 and Sections A-A & B-B
- 601.0733 L-Bracket (F/N 51) may be located on the forward saddle at one of the saddle-to-skidtube bolt locations as shown in Figure 1 and Section C-C.
- 601.2199 L-Bracket (F/N 49) may be located on the aft saddle at one of the saddle-to-skidtube bolt locations as shown in Figure 1 and Section C-C.

The section views give suggested bolt lengths for each location. Longer or shorter bolts and additional washers may be used to ensure 1.5-2 threads in safety. Torque the AN3 bolts 20-25in.lbs (2.3- 2.8 N.m). If required, touch-up paint finish with chemical film material (Alodine 1200 or 1201) per MIL-C-5541, one coat of MIL-P-85582 or MIL-P-23377 primer, and 2-3 coats of MIL-C-83285 polyurethane paint to match original finish.

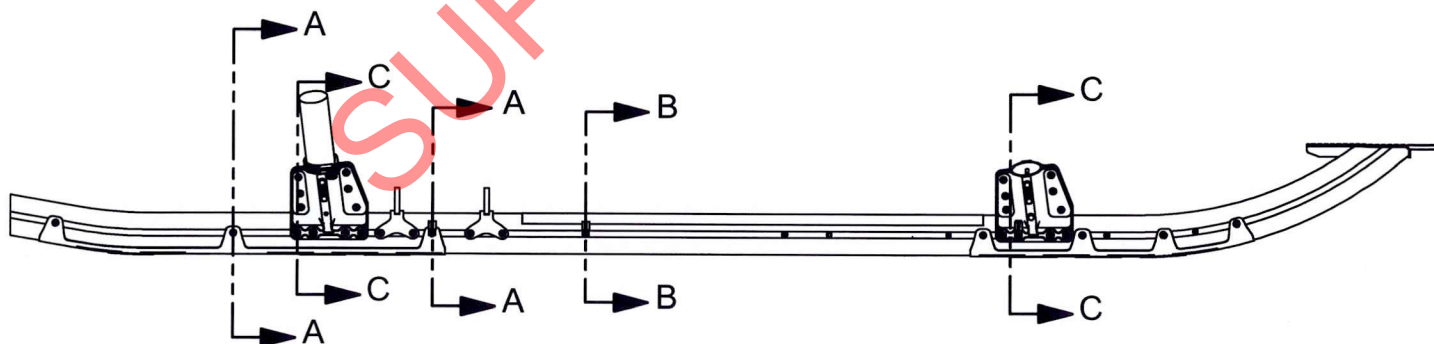


FIGURE 1: LOOP CLAMP AND L-BRACKET ATTACHMENT LOCATIONS

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

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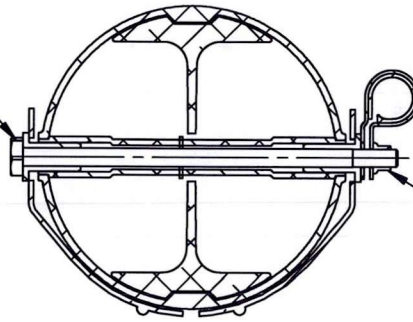
BY: C. Provençal
C. PROVENÇAL (DE # 03)

DATE: 21.09.01
CERT. NO.: SH19-31 / SH18-9
ISSUE NO.: 1 / 1

APPROVED

A	NEW ISSUE	SAD	21.09.01
REV.	DESCRIPTION	BY	DATE
DESIGN	SAD	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	SAD		
CHECKED	HE	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9865	SHEET 1 OF 4
APPROVED	CP	TITLE	SCALE
DE APPR.	CP	505 FLOAT ATTACHMENT	NTS
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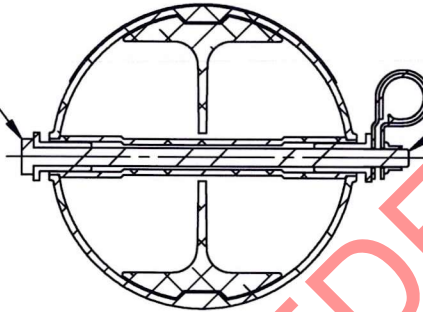
AN3C37A BOLT
D2652 BUSHING
WEARPLATE, REF
D3872-7 WASHER



D3872-7 WASHER
WEARPLATE, REF
D2652 BUSHING
601.4106 LOOP CLAMP
NAS1149C0332R WASHER
MS21043-3 NUT

SECTION A-A

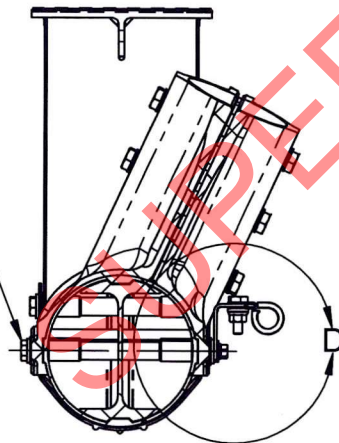
AN3C36A BOLT
D2652 BUSHING
D3872-7 WASHER



D3872-7 WASHER
D2652 BUSHING
601.4106 LOOP CLAMP
NAS1149C0332R WASHER
MS21043-3 NUT

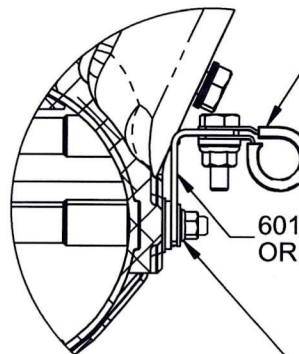
SECTION B-B

AN3C42A BOLT
D2652 BUSHING
D3872-7 WASHER



SECTION C-C

601.4106 LOOP CLAMP, REF



601.2199 L-BRACKET (AFT)
OR 601.0733 L-BRACKET (FWD)

D3872-7 WASHER
D2652 BUSHING
L-BRACKET, REF
NAS1149C0332R WASHER
MS21043-3 NUT

DETAIL D

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MFG. APPR.	N/A	DSI 9865	SHEET 2 OF 4
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3.0 CHANGE: L-BRACKET REPLACEMENT ON AFT SADDLE

The 601-0733 L-Bracket (F/N 51) shown in Figure 31 of II505-1 will not install on the aft saddle of DART D505-1057-XXX Skidtube Installations. Alternately, install an additional 601.0896 Loop Clamp (F/N 24) at the location shown in Figure 2 of this DSI. Install the 601.0625 Loop Clamp (F/N 64) and associated hardware similar to Section P-P of Figure 30 of II505-1.

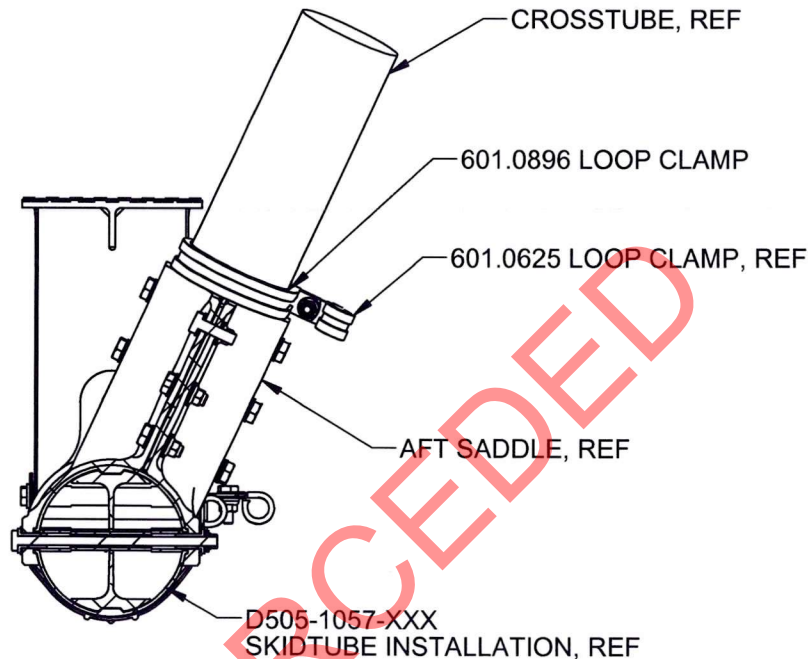


FIGURE 2

4.0 TORQUE VALUE CORECTION, T-BOLT LOOP CLAMP

The torque value for the 651.2601 T-Bolt Loop Clamp, Section 4.3 of II505-1, is amended as follows:

WAS:

3. Torque T-Bolt Loop Clamp to 80-90 in-lbf.

IS:

3. Torque T-Bolt Loop Clamp to 45-50 in-lbf.

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5.0 PARTS LIST, FLOAT ATTACHMENT KIT

The DSI 9865-011 Float Attachment Kit provides additional hardware to allow installation of the DART 651.600X-series Emergency Float System on DART D505-1057-013/-014/-113/-114 Skidtube Installations. Qty(1) kit contains sufficient hardware to install qty(1) float system onto qty(2) skidtubes.

QTY -011	Part Number	Description
X	DSI 9865-011	FLOAT ATTACHMENT KIT, 505
2	600.0896	LOOP CLAMP (MS21919WDG35)
2	AN3C36A	BOLT
6	AN3C37A	BOLT
4	AN3C42A	BOLT
2	D2652	BUSHING
20	D3672-7	WASHER
10	MS21043-3	NUT (OR 601.0789)
10	NAS1149C0332R	WASHER (OR 601.2421)

6.0 WEIGHT AND BALANCE

This DSI has negligible effect on weight and balance.

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		NTS
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